METHOD FOR TUBE SPIT CORRECTION BASED ON HIGH VOLTAGE OUTPUT

Abstract

The present invention provides a method to detect tube spits and to reduce spit related artifacts in a computed tomography imaging system. A way of detecting tube spit is to monitor the generator kilovolt or milliamp waveforms. Changes in kV waveform follow closely with those in offset-corrected projection data. If a tube-spit event is not detected, processing proceeds without tube spit correction. If a tube-spit event is detected, a tube spit correction is performed. The objective of tube-spit correction is to remove image artifacts due to the occurrence of a tube-spit event.